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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/629,620	07/30/2003	Akira Nagashima	03500.015658.1	9125	
5514	5514 7590 02/24/2005			EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			FAISON, VERONICA F		
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER	
ĺ			1755		
			DATE MAILED: 02/24/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/629,620	NAGASHIMA ET AL.
Office Action Summary	Examiner	Art Unit
	Veronica F. Faison	1755
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 18 No. 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under Exercise. 	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-45,47,48 and 85 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-45,47,48 and 85 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		'
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the darwing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No. <u>09/923,417</u> . ed in this National Stage
Attachment(s) 1) \[\sum \text{Notice of References Cited (PTO-892)} \]	4) 🔲 Interview Summary	(PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da	

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DETAILED ACTION

Response to Amendment

Claims 1, 5, 23, and 43 have been amended, claim 85 has been added and claims 46 and 49-84 have been canceled. Hence, claims 1-45, 47, 48, and 85 are pending in the application.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-36 and 84 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-3, 6, 10-36 of U.S. Patent No. 6,835,239. Although the conflicting claims are not identical, they are not patentably distinct from each other because both the application and the patent are directed to fluorescent ink compositions.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5, 7-15, 17-26, 35, 36, 38-45, 47-48 and 85 rejected under 35 U.S.C. 102(b) as being anticipated by Teraoka et al (US Patent 5,865,883).

Teraoka et al teach an ink for ink jet recording comprising a dye having a pyrene ring and triethanolamine (col. 3 lines 49-51). The dye having the pyrene ring may be a water-soluble fluorescent dye such as Solvent Green 7 which may be used in the ink composition in the amount from 0.2 to 8 percent by weight (col. 3 line 56-col. 4 line 20). The liquid medium of the ink composition is a mixture of water and a water-soluble organic solvent which includes ethylene glycol, diethylene glycol, glycerin (first organic compound of (i)), ethanol and isopropyl alcohol present in the amount of 10 to 40 percent by weight (col. 5 lines 10-34). A nonionic surfactant (second organic compound of (i)) may be present in the ink composition which includes surfactants such as ethylene oxide adducts of acetylene glycol (which is known to have the formula set forth in claim 25 and also known as Acetylenol EH in examples), present in the amount of 0.01 to 10 percent y weight (col. 5 lines 40-66). Other additives such as urea and urea derivative, viscosity modifier, preservative, antioxidant and fungicide may be present in the ink composition (col. 6 lines 9-14). The reference further teaches magenta ink composition comprising a water-soluble fluorescent dye such as Acid Red 52 present in the amount of 0.2 to 8 present by weight (col. 7 lines 17-30). The liquid medium of the ink composition is a mixture of water and a water-soluble which includes ethylene glycol, diethylene glycol, glycerin (first organic compound of (i)), ethanol, and isopropyl

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alcohol present in the amount of 10 to 40 percent by weight (col. 8 line 49-col. 9 line 8). Other additives such as urea and urea derivative, viscosity modifier, preservative, antioxidant and fungicide may be present in the ink composition (col. 9 lines 17-23). The reference remains silent as to the physical properties of the ink composition. However, ink composition composed of the same the components would inherently have the same physical properties that are claimed by Applicant. See examples for specific combinations of the above components claimed by Applicant. The composition as taught by Teraoka et al appears to anticipate the claimed invention.

Claims 1-3, 7-21, 24-26, 39-42, 48 and 85 are rejected under 35 U.S.C. 102(b) as being anticipated by Tochihara et al (US Patent 5,485,188).

Tochihara et al teach ink compositions for ink jet recording comprising an anion dyestuff and a nonionic surfactant (abstract and col. 3 lines 21-67). The nonionic surfactant (second organic compound) present in the ink composition include adduct of acetylene glycol and polyethylene oxide (which known to have the structure set forth in claim 25) in the amount of 0.5 to 20 percent by weight (col. 5 lines 1-10). The reference further teaches that Acid Red 52 (which fluorescent) may be used as an anion dyestuff present in the amount of 0.1 to 5 percent by weight in the magenta ink (col. 5 lines 17-23). The liquid medium may be a mixture of water and water-soluble organic solvent such as diethylene glycol, monohydric alcohol including ethanol and glycerin (first organic compound), which may be used alone or in combination in the amount of 5 to 40 percent by weight (col. 5 lines 40-56). The reference also teaches that various constituents may be added to the ink composition including urea or a derivative of urea

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and pH regulator (col. 5 lines 58-65). See the examples for specific combinations of the above components specifically the magenta ink compositions. The ink composition as taught by Tochihara et al appears to anticipate the claimed invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6, 27, 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Teraoka et al (US Patent 5,865,883).

Teraoka et al is described above, but fail to specifically exemplify the use of fluorescent colorant wherein it is in amount of at most 1 percent, monohydric alcohol and specific urea derivative as claimed by Applicant. The reference discloses urea and urea derivatives, which is broad enough to encompass the derivative claimed by Applicant. Therefore it would have been obvious to one of ordinary skill in the art to use the fluorescent colorant wherein it is in amount of at most 1 percent, monohydric alcohol and specific urea derivative as claimed by Applicant as Teraoka et al also discloses the use of fluorescent colorant wherein it is in the amount of at most 1 percent, monohydric alcohol and specific urea derivative but shows no examples incorporating them.

Claims 5, 6, 27, 35 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tochihara et al (US Patent 5,485,188).

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Tochihara et al is described above, but fail to specifically exemplify the use of fluorescent colorant wherein it is in amount of at most 1 percent, monohydric alcohol and specific urea derivative as claimed by Applicant. The reference discloses urea and urea derivatives, which is broad enough to encompass the derivative claimed by Applicant. Therefore it would have been obvious to one of ordinary skill in the art to use the fluorescent colorant wherein it is in amount of at most 1 percent, monohydric alcohol and specific urea derivative as claimed by Applicant as Teraoka et al also discloses the use of fluorescent colorant wherein it is in the amount of at most 1 percent, monohydric alcohol and specific urea derivative but shows no examples incorporating them.

Claims 1-3, 5-7, 10, 12-15, 17-20, 24-26, 28-37, 39-42, 44 and 85are rejected under 35 U.S.C. 103(a) as being unpatentable over Bauer et al (US Patent 6,176,908) in view of Teraoka et al (US Patent 5,865,883).

Bauer et al teach an aqueous fluorescent red ink jet ink comprising an aqueous vehicle, a red or magenta pigment, a polymeric dispersant, a fluorescent dye (abstract and col. 1 line 66-col. 2 line 5). The aqueous vehicle is a mixture of water and at least one water-soluble or water miscible organic solvent such as glycol or glycol ether, wherein the mixture is present in the amount of 70 to 99.8 percent by weight (col. 2 lines 48-67). The colorant present in the ink composition contains at least one red or magenta pigment and a fluorescent red dye. The ink may also contain a yellow pigment and/or yellow dye, which may be either fluorescent or non-fluorescent. The pigments may be present in the composition in the amount of 0.1 to 5 percent by weight. The

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fluorescent red dye is present in the amount of 0.05 to 2 percent by weight (col. 3 lines 1-23). The reference discloses that other ingredients or additives that are typical for ink jet ink such as surfactants, biocides and humectants may be added to the ink composition (col. 3 line 66-col. 4 line 7). The reference remains silent as to which specific surfactant may be used and to whether or not the non-fluorescence coloring material is an azo dye. However, it is the position of the Examiner that any known surfactant and yellow dye, such as nonionic surfactants including Acetylenol EH and azo dyes having the properties claimed by Applicant, may be used because the reference broadly discloses surfactants and yellow dye. The reference also discloses that the ink composition may have a surface tension from about 15 to about 70 dyne/cm (col. 4 lines 20-23). Bauer et al fail to teach a glycerin , urea and it derivatives and a specific surfactant

Teraoka et al is described above. Tochihara et al and Teraoka et al are combinable because they are from the same field of endeavor.

Therefore it would have been obvious to one of ordinary skill in the art to use the additive taught by Teraoka in the ink composition of Tochihara et al because Tochihara discloses that additives that are typical for ink jet ink may be used, which would include urea and its derivatives and the specific surfactant taught by Teraoka et al. Regarding the glycerin, the subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have replaced diethylene glycol with glycerin because the substitution of art recognized equivalents as shown by Teraoka et al would have been within the level of ordinary skill in the art.

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Response to Arguments

Applicant's arguments filed 11-18-04 have been fully considered but they are not persuasive. Applicant argues that Teraoka and Tochihara are intended for use under visible light and that it is improper to combine Bauer with Teraoka.

It is the position of the Examiner that when the same components particular the same fluorescent colorant along with a non-fluorescent colorant as claimed and taught in Applicant's specification are used, that the ink composition will behave the in same manner. These arguments are not deemed persuasive since arguments cannot take the place of evidence in the record to overcome a rejection. See MPEP 2145.

A reference is good not only for what it teaches by direct anticipation but also for what one of ordinary skill might reasonably infer from the teachings. *In re Opprecht* 12 USPQ 2d 1235, 1236 (Fed. Cir. 1989); *In re Bode* 193 USPQ 12 (CCPA 1976); *In re Lamberti* 192 USPQ 278 (CCPA 1976); *In re Bozek* 163 USPQ 545, 549 (CCPA 1969); *In re Preda* 159 USPQ 342 (CCPA 1968); *In re Van Mater* 144 USPQ 421 (CCPA 1965); *In re Jacoby* 135 USPQ 317 (CCPA 1962); *In re LeGrice* 133 USPQ 365 (CCPA 1962).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Veronica F. Faison whose telephone number is 571-272-1366. The examiner can normally be reached on Monday-Thursday and alternate Fridays 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Bell can be reached on 571-272-1362. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER

VFF